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L17 ANSWER 9 OF 122 HCAPLUS COPYRIGHT 2002 ACS  
AN 2000:844146 HCAPLUS  
DN 133:352443  
TI Preparation of HG15-type metal welding and cutting gas  
IN Ding, Mengye  
PA Peop. Rep. China  
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.  
CODEN: CNXXEV  
DT Patent  
LA Chinese  
IC ICM C10L003-12  
CC 51-5 (Fossil Fuels, Derivatives, and Related Products)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1250078	A	20000412	CN 1998-121620	19981005
AB	The welding and cutting gas is a mix. contg. a mother liquor and an additive. The mother liquor comprises propane and butane 60-95%, and methane, ethane, and pentane 1-10%. The additive consists of ferrocene 0.3-0.8, pentadiene isomer 0.5-5, pentane isomer 0.2-4, hexane isomer 0.8-1.5, and <b>aldehyde</b> 0.4-0.8%.				
ST	welding cutting gas additive				
IT	Cutting Fuel additives <b>Fuel gas</b> manufacturing Welding of metals (prepn. of HG15-type metal welding and cutting gas)				
IT	50-00-0, Formaldehyde, uses 75-07-0, Acetaldehyde, uses 102-54-5, Ferrocene 110-54-3, Hexane, uses 123-38-6, Propionaldehyde, uses RL: MOA (Modifier or additive use); USES (Uses) (prepn. of HG15-type metal welding and cutting gas)				
IT	74-82-8, Methane, uses 74-84-0, Ethane, uses 74-98-6, Propane, uses 106-97-8, Butane, uses 109-66-0, Pentane, uses 41050-31-1, Pentadiene RL: TEM (Technical or engineered material use); USES (Uses) (prepn. of HG15-type metal welding and cutting gas)				

L17 ANSWER 84 OF 122 HCAPLUS COPYRIGHT 2002 ACS  
AN 1988:56981 HCAPLUS  
DN 98:56981  
TI **Fuel gases** for use in cutting steels  
PA Suzuki Shokai K. K., Japan  
SO Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC C10L003-00  
ICA B23K007-00  
CC 51-24 (Fossil Fuels, Derivatives, and Related Products)  
Section cross-reference(s): 55

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57133191	A2	19820817	JP 1981-19745	19810213
AB	In cutting steel plates with a H-torch flame, the nonluminous inner cone of the flame is distinctively colored by adding .ltorsim.15 vol. of .gtoreq.1 of hydrocarbons, alcs. <b>aldehydes</b> , and ethers to the <b>fuel gas</b> . MeOH [67-56-1], acetone [67-64-1], and C6H6				

[71-43-2] are used as illustrative examples.

ST steel cutting hydrogen flame coloring; methanol coloring agent hydrogen flame; acetone coloring agent hydrogen flame; benzene coloring agent hydrogen flame

IT Coloring materials  
(for hydrogen flames, in steel cutting)

IT Flame  
(hydrogen, coloring of, for steel cutting)

IT 12597-69-2, uses and miscellaneous  
RL: USES (Uses)  
(cutting of, coloring of hydrogen flames in)

IT 1333-74-0, uses and miscellaneous  
RL: USES (Uses)  
(flames, coloring of, for steel cutting)

IT 67-56-1, uses and miscellaneous 67-64-1, uses and miscellaneous  
71-43-2, uses and miscellaneous  
RL: USES (Uses)  
(hydrogen flame coloring by addn. of, in steel cutting)